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| U.S. DEPARTMENT OF COMMERCE, PATENT AND TRADEMARK OFFICE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                     | DATE: July 23, 2004                            |
| <b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                     | U.S. APPL. NO. (if known):<br><b>107502319</b> |
| INTERNATIONAL APPLICATION NO.:<br><b>PCT/JP03/03162</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | INTERNATIONAL FILING DATE:<br><b>MARCH 17, 2003</b> | PRIORITY DATE CLAIMED:                         |
| TITLE OF INVENTION: <b>INFORMATION INPUT AND OUTPUT METHOD BY USE OF DOT PATTERN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                     |                                                |
| APPLICANT(S) FOR DO/EO/US: <b>Kenji YOSHIDA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                     |                                                |
| Applicant hereby submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                     |                                                |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 USC 371(f)). The submission must include items (5), (6), (9) and (17) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)): <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> has been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US)</li> </ol> </li> <li>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> have been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> |                                                     |                                                |
| <b>ITEMS 11. TO 16. BELOW CONCERN OTHER DOCUMENT(S) OR INFORMATION INCLUDED:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                     |                                                |
| <ol style="list-style-type: none"> <li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98 together with the international search report, PTO-1449.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.<br/> ASSIGNEE NAME AND ADDRESS:<br/> Please publish the assignee data with the application.</li> <li>13. <input type="checkbox"/> A <b>FIRST</b> preliminary amendment.<br/> <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment</li> <li>14. <input type="checkbox"/> A substitute specification.</li> <li>15. <input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>16. <input checked="" type="checkbox"/> Other items or information: 17 sheets of drawings.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                     |                                                |

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| U.S. APPLICATION NO.<br>(if known) <b>10/502319</b> | INTERNATIONAL APPLICATION NO.<br><b>PCT/JP03/03162</b> | DATE: <b>July 23, 2004</b> |  |
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| 17. <input checked="" type="checkbox"/> The following fees are submitted:<br><br><b>Basic National Fee (37 CFR 1.492(a)(1)-(5):</b><br>Search Report has been prepared by the EPO or JPO: ..... \$920.00<br><br>International preliminary examination fee paid<br>to USPTO (37 CFR 1.482)..... \$730.00<br><br>No international preliminary examination fee paid<br>to USPTO (37 CFR 1.482) but international search fee<br>paid to USPTO (37 CFR 1.445(a)(2)) ..... \$770.00<br><br>Neither international preliminary examination fee<br>(37 CFR 1.482) nor international search fee<br>(37 CFR 1.445(a)(2)) paid to USPTO ..... \$1080.00<br><br>International preliminary examination fee<br>(37 CFR 1.482) and all claims satisfied provisions<br>of PCT Article 33(2)-(4)..... \$100.00<br><br><div style="text-align: right;"><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b></div> | <u>CALCULATIONS</u> | <u>PTO USE ONLY</u> |
| <b>\$ 920.00</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |                     |

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| Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than <u>  x  </u> 30 months from the earliest claimed priority date (37 CFR 1.492(e)). | <b>\$ 130.00</b> |  |
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| CLAIMS                                                                                                                                                                             | NUMBER FILED | NUMBER EXTRA | RATE       |                   |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|------------|-------------------|----|
| TOTAL                                                                                                                                                                              | 15 -20 =     |              | X \$ 18.00 |                   |    |
| INDEPENDENT                                                                                                                                                                        | 1 - 3 =      |              | X \$ 86.00 |                   |    |
| Multiple dependent claims(s) (if applicable)                                                                                                                                       |              |              | + \$290.00 |                   |    |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>                                                                                                                                               |              |              |            | <b>\$1,050.00</b> |    |
| Reduction by 1/2 for filing by small entity, if applicable. (Note 37 CFR 1.9, 1.27, 1.28).                                                                                         |              |              |            | <b>\$- 525.00</b> |    |
| <b>SUBTOTAL =</b>                                                                                                                                                                  |              |              |            | <b>\$ 525.00</b>  |    |
| Processing fee of <b>\$130.00</b> for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).                           |              |              |            | <b>+</b>          |    |
| <b>TOTAL NATIONAL FEE =</b>                                                                                                                                                        |              |              |            | <b>\$ 525.00</b>  |    |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31).<br><b>\$40.00 per property +</b> |              |              |            |                   |    |
| <b>TOTAL FEES ENCLOSED =</b>                                                                                                                                                       |              |              |            | <b>\$ 525.00</b>  |    |
|                                                                                                                                                                                    |              |              |            | Amount to be:     |    |
|                                                                                                                                                                                    |              |              |            | refunded          | \$ |
|                                                                                                                                                                                    |              |              |            | charged           | \$ |

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| U.S. APPLICATION NO.<br>(if known) <b>107502319</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | INTERNATIONAL APPLICATION NO.<br><b>PCT/JP03/03162</b> | DATE: <b>July 23, 2004</b>                                                                                                              |
| <p>a. <input checked="" type="checkbox"/> A check in the amount of \$525.00 to cover the above fees is enclosed. (Small Entity). (\$460.00 for basic filing fee and \$65.00 for late filing of the declaration).</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. 50-2866 in the amount of \$___ to cover the above fees. (A duplicate copy of this sheet is enclosed.)</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2866.</p> <p>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed to request that the application be restored to pending status.</p> |                                                        |                                                                                                                                         |
| Send All Correspondence To:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                        | WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP<br>Suite 700<br>1250 Connecticut Avenue, N.W.<br>Washington, D.C. 20036<br>CUSTOMER No. 38834 |
| Typed or Printed Name    Stephen G. Adrian                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                        | Reg. No. 32,878                                                                                                                         |
| Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                        | Date:    July 23, 2004                                                                                                                  |

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